

A transceiver for use in universal mobile telecommunication systems is specified which exhibits an intermediate frequency in a range from 0 to 0.5 megahertz at the receiver end and an intermediate frequency of 190 megahertz at the transmitting end. The configuration described enables it to be operated with frequency duplex division (FDD), time duplex division and FDD variable duplex frequency. When a network operator is only provided with a narrow bandwidth, the configuration described can be operated in a particularly energy-saving manner due to the fact that only one local oscillator is needed for the first and second mixers. In this case, the transmit intermediate frequency of 190 megahertz can be adjusted by  $\pm 5$  or  $\pm 10$  megahertz. The configuration described can be highly integrated in a simple manner.

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